

It would be very simple to change this furnace in the manner shown in Fig. 100. Here the hot gases from the independent firebox are set free in the heating chamber of the furnace and drawn off from the bottom of the chamber. The circulation of the heated gas is indicated by the arrows.

Certainly, this construction is not suitable for heavy artillery

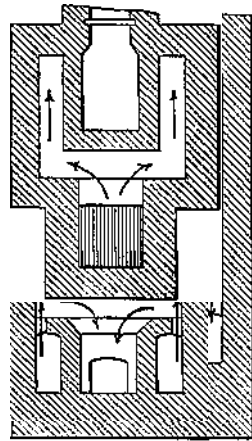


FIG. 99.

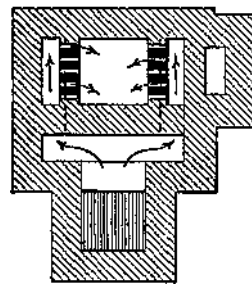


FIG. 100.

tubes and jackets. A pit in the neighborhood of 20 m in depth, as required for the large naval guns, cannot be heated in such a simple manner; but, in general, the problem may be very easily solved if the radiation losses from the heating chamber are avoided. Another type of vertical annealing furnace is that used for the annealing of iron wire before and after it has been passed through the drawing blocks. Fig. 101 shows the design of a furnace for